



Stator lengths available:

| Model | Length (in) / (mm) | Weight(g) | Continuous Watts | Base Price |
|-------|--------------------|-----------|------------------|------------|
| 4613 | 1.2" 30mm | 210g | 900 | 110.00 |
| 4619 | 1.4" 36mm | 274g | 1,335 | 130.00 |
| 4625 | 1.7" 42mm | 332g | 1,750 | 150.00 |
| 4632 | 2.0" 50mm | 380g | 2,250 | 172.00 |
| 4638 | 2.2" 55mm | 410g | 2,650 | 192.00 |

Large diameter motor offers high torque for small to mid-size multicopters and fixed wing prop drives. 10"-18" props. Biased towards durability.

Motor type: outrunner

Poles: 22p

Slots: 24s

Finned: N/A

Sealed: N/A

Sensored: Call

Gearbox(es): call

Shaft size(s): 8mm

Max RPM: 12,000

4613

| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
|-----------|--------|----------|-----------------|----------------|
| inch: 2.1 | 1.2 | 7.4 ozs. | 900 | 1,800 |
| mm: 53 | 30 | 209g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|-------|----|---------|----------|--------------------------|--------|---------------------------|-----------------|
|-------|----|---------|----------|--------------------------|--------|---------------------------|-----------------|

4613

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|-----------|--------|----------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.2 | 7.4 ozs. | 900 | 1,800 |
| mm: 53 | 30 | 209g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|--------------------|-----|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4613/100/29 | 29 | 0.054 | 9.046 | 329.945 | 46.724 | 414 | 5 |
| 4613/95/30 | 30 | 0.057 | 8.167 | 318.947 | 45.167 | 400 | 6 |
| 4613/90/32 | 32 | 0.060 | 7.332 | 299.013 | 42.344 | 375 | 6 |
| 4613/85/34 | 34 | 0.064 | 6.543 | 281.424 | 39.853 | 353 | 6 |
| 4613/80/36 | 36 | 0.068 | 5.798 | 265.789 | 37.639 | 333 | 7 |
| 4613/75/39 | 39 | 0.072 | 5.098 | 245.344 | 34.744 | 308 | 7 |
| 4613/70/41 | 41 | 0.077 | 4.444 | 233.376 | 33.049 | 293 | 8 |
| 4613/65/45 | 45 | 0.083 | 3.834 | 212.631 | 30.111 | 267 | 8 |
| 4613/60/48 | 48 | 0.090 | 3.269 | 199.342 | 28.229 | 250 | 9 |
| 4613/55/53 | 53 | 0.098 | 2.749 | 180.536 | 25.566 | 226 | 10 |
| 4613/50/58 | 58 | 0.108 | 2.275 | 164.972 | 23.362 | 207 | 11 |
| 4613/45/64 | 64 | 0.120 | 1.845 | 149.506 | 21.172 | 188 | 12 |
| 4613/40/72 | 72 | 0.135 | 1.460 | 132.894 | 18.819 | 167 | 13 |
| 4613/38/76 | 76 | 0.142 | 1.319 | 125.900 | 17.829 | 158 | 14 |
| 4613/36/80 | 80 | 0.150 | 1.185 | 119.605 | 16.938 | 150 | 15 |
| 4613/34/85 | 85 | 0.159 | 1.058 | 112.569 | 15.941 | 141 | 16 |
| 4613/32/90 | 90 | 0.169 | 0.938 | 106.316 | 15.056 | 133 | 17 |
| 4613/30/96 | 96 | 0.180 | 0.825 | 99.671 | 14.115 | 125 | 18 |
| 4613/28/103 | 103 | 0.193 | 0.720 | 92.897 | 13.155 | 117 | 19 |
| 4613/26/111 | 111 | 0.208 | 0.622 | 86.202 | 12.207 | 108 | 21 |
| 4613/24/121 | 121 | 0.225 | 0.531 | 79.078 | 11.198 | 99 | 22 |
| 4613/22/132 | 132 | 0.245 | 0.447 | 72.488 | 10.265 | 91 | 24 |
| 4613/20/145 | 145 | 0.270 | 0.370 | 65.989 | 9.345 | 83 | 27 |
| 4613/19/152 | 152 | 0.284 | 0.335 | 62.950 | 8.914 | 79 | 28 |
| 4613/18/161 | 161 | 0.300 | 0.301 | 59.431 | 8.416 | 75 | 30 |
| 4613/17/170 | 170 | 0.318 | 0.269 | 56.285 | 7.971 | 71 | 32 |
| 4613/16/181 | 181 | 0.338 | 0.239 | 52.864 | 7.486 | 66 | 34 |
| 4613/15/193 | 193 | 0.360 | 0.210 | 49.577 | 7.021 | 62 | 36 |
| 4613/14/207 | 207 | 0.386 | 0.184 | 46.224 | 6.546 | 58 | 38 |
| 4613/13/223 | 223 | 0.415 | 0.159 | 42.908 | 6.076 | 54 | 41 |
| 4613/12/241 | 241 | 0.450 | 0.136 | 39.703 | 5.622 | 50 | 45 |

4613

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|-----------|--------|----------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.2 | 7.4 ozs. | 900 | 1,800 |
| mm: 53 | 30 | 209g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|----------------------|-------|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4613/11/263 | 263 | 0.491 | 0.115 | 36.382 | 5.152 | 46 | 49 |
| 4613/10/289 | 289 | 0.540 | 0.095 | 33.109 | 4.689 | 42 | 54 |
| 4613/9.5/305 | 305 | 0.568 | 0.086 | 31.372 | 4.443 | 39 | 57 |
| 4613/9/321 | 321 | 0.600 | 0.078 | 29.808 | 4.221 | 37 | 60 |
| 4613/8.5/340 | 340 | 0.635 | 0.069 | 28.142 | 3.985 | 35 | 63 |
| 4613/8/362 | 362 | 0.675 | 0.062 | 26.432 | 3.743 | 33 | 67 |
| 4613/7.5/386 | 386 | 0.720 | 0.055 | 24.789 | 3.510 | 31 | 72 |
| 4613/7/413 | 413 | 0.771 | 0.048 | 23.168 | 3.281 | 29 | 77 |
| 4613/6.5/445 | 445 | 0.831 | 0.041 | 21.502 | 3.045 | 27 | 83 |
| 4613/6/482 | 482 | 0.900 | 0.036 | 19.851 | 2.811 | 25 | 90 |
| 4613/5.5/526 | 526 | 0.982 | 0.030 | 18.191 | 2.576 | 23 | 98 |
| 4613/5/579 | 579 | 1.080 | 0.025 | 16.526 | 2.340 | 21 | 108 |
| 4613/4.5/643 | 643 | 1.200 | 0.021 | 14.881 | 2.107 | 19 | 120 |
| 4613/4/723 | 723 | 1.350 | 0.016 | 13.234 | 1.874 | 17 | 134 |
| 4613/3.5/827 | 827 | 1.543 | 0.013 | 11.570 | 1.638 | 15 | 154 |
| 4613/3/964 | 964 | 1.800 | 0.010 | 9.926 | 1.406 | 12 | 179 |
| 4613/2.5/1157 | 1,157 | 2.160 | 0.007 | 8.270 | 1.171 | 10 | 215 |
| 4613/2/1447 | 1,447 | 2.700 | 0.005 | 6.613 | 0.936 | 8 | 269 |
| 4613/1.5/1929 | 1,929 | 3.600 | 0.003 | 4.960 | 0.702 | 6 | 359 |
| 4613/1/2893 | 2,893 | 5.400 | 0.001 | 3.307 | 0.468 | 4 | 538 |
| 4613/0.5/5787 | 5,787 | 10.800 | 0.000 | 1.653 | 0.234 | 2 | 1,076 |

4619

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|-----------|--------|----------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.4 | 9.6 ozs. | 1,335 | 2,670 |
| mm: 53 | 36 | 272g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|--------------------|----|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4619/100/20 | 20 | 0.054 | 12.422 | 478.420 | 67.750 | 600 | 5 |
| 4619/95/21 | 21 | 0.057 | 11.213 | 455.638 | 64.524 | 571 | 6 |
| 4619/90/22 | 22 | 0.060 | 10.066 | 434.927 | 61.591 | 545 | 6 |

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|-----------|--------|----------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.4 | 9.6 ozs. | 1,335 | 2,670 |
| mm: 53 | 36 | 272g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | Constant inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|---------------------|-----|---------|----------|--------------------------|--------------------|---------------------------|-----------------|
| 4619/85/23 | 23 | 0.064 | 8.981 | 416.018 | 58.913 | 522 | 6 |
| 4619/80/25 | 25 | 0.068 | 7.958 | 382.736 | 54.200 | 480 | 7 |
| 4619/75/26 | 26 | 0.072 | 6.997 | 368.015 | 52.115 | 462 | 7 |
| 4619/70/28 | 28 | 0.077 | 6.098 | 341.729 | 48.393 | 429 | 8 |
| 4619/65/30 | 30 | 0.083 | 5.260 | 318.947 | 45.167 | 400 | 8 |
| 4619/60/33 | 33 | 0.090 | 4.485 | 289.952 | 41.061 | 364 | 9 |
| 4619/55/36 | 36 | 0.098 | 3.771 | 265.789 | 37.639 | 333 | 10 |
| 4619/50/40 | 40 | 0.108 | 3.119 | 239.210 | 33.875 | 300 | 11 |
| 4619/45/44 | 44 | 0.120 | 2.528 | 217.464 | 30.795 | 273 | 12 |
| 4619/40/49 | 49 | 0.135 | 2.000 | 195.274 | 27.653 | 245 | 13 |
| 4619/38/52 | 52 | 0.142 | 1.806 | 184.008 | 26.058 | 231 | 14 |
| 4619/36/55 | 55 | 0.150 | 1.622 | 173.971 | 24.636 | 218 | 15 |
| 4619/34/58 | 58 | 0.159 | 1.448 | 164.972 | 23.362 | 207 | 16 |
| 4619/32/62 | 62 | 0.169 | 1.283 | 154.329 | 21.855 | 194 | 17 |
| 4619/30/66 | 66 | 0.180 | 1.129 | 144.976 | 20.530 | 182 | 18 |
| 4619/28/71 | 71 | 0.193 | 0.985 | 134.766 | 19.085 | 169 | 19 |
| 4619/26/76 | 76 | 0.208 | 0.850 | 125.900 | 17.829 | 158 | 21 |
| 4619/24/82 | 82 | 0.225 | 0.725 | 116.688 | 16.524 | 146 | 22 |
| 4619/22/90 | 90 | 0.245 | 0.610 | 106.316 | 15.056 | 133 | 24 |
| 4619/20/99 | 99 | 0.270 | 0.505 | 96.651 | 13.687 | 121 | 27 |
| 4619/19/104 | 104 | 0.284 | 0.457 | 92.004 | 13.029 | 115 | 28 |
| 4619/18/110 | 110 | 0.300 | 0.410 | 86.985 | 12.318 | 109 | 30 |
| 4619/17/116 | 116 | 0.318 | 0.366 | 82.486 | 11.681 | 103 | 32 |
| 4619/16/124 | 124 | 0.338 | 0.325 | 77.165 | 10.927 | 97 | 34 |
| 4619/15/132 | 132 | 0.360 | 0.286 | 72.488 | 10.265 | 91 | 36 |
| 4619/14/141 | 141 | 0.386 | 0.250 | 67.861 | 9.610 | 85 | 38 |
| 4619/13/152 | 152 | 0.415 | 0.216 | 62.950 | 8.914 | 79 | 41 |
| 4619/12/165 | 165 | 0.450 | 0.184 | 57.990 | 8.212 | 73 | 45 |
| 4619/11/180 | 180 | 0.491 | 0.155 | 53.158 | 7.528 | 67 | 49 |
| 4619/10/198 | 198 | 0.540 | 0.129 | 48.325 | 6.843 | 61 | 54 |
| 4619/9.5/208 | 208 | 0.568 | 0.117 | 46.002 | 6.514 | 58 | 57 |

4619

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|-----------|--------|----------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.4 | 9.6 ozs. | 1,335 | 2,670 |
| mm: 53 | 36 | 272g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|----------------------|-------|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4619/9/220 | 220 | 0.600 | 0.105 | 43.493 | 6.159 | 55 | 60 |
| 4619/8.5/233 | 233 | 0.635 | 0.094 | 41.066 | 5.815 | 52 | 63 |
| 4619/8/247 | 247 | 0.675 | 0.083 | 38.738 | 5.486 | 49 | 67 |
| 4619/7.5/264 | 264 | 0.720 | 0.074 | 36.244 | 5.133 | 45 | 72 |
| 4619/7/283 | 283 | 0.771 | 0.064 | 33.811 | 4.788 | 42 | 77 |
| 4619/6.5/305 | 305 | 0.831 | 0.056 | 31.372 | 4.443 | 39 | 83 |
| 4619/6/330 | 330 | 0.900 | 0.048 | 28.995 | 4.106 | 36 | 90 |
| 4619/5.5/360 | 360 | 0.982 | 0.040 | 26.579 | 3.764 | 33 | 98 |
| 4619/5/396 | 396 | 1.080 | 0.034 | 24.163 | 3.422 | 30 | 108 |
| 4619/4.5/440 | 440 | 1.200 | 0.027 | 21.746 | 3.080 | 27 | 120 |
| 4619/4/495 | 495 | 1.350 | 0.022 | 19.330 | 2.737 | 24 | 134 |
| 4619/3.5/566 | 566 | 1.543 | 0.017 | 16.905 | 2.394 | 21 | 154 |
| 4619/3/660 | 660 | 1.800 | 0.013 | 14.498 | 2.053 | 18 | 179 |
| 4619/2.5/792 | 792 | 2.160 | 0.009 | 12.081 | 1.711 | 15 | 215 |
| 4619/2/990 | 990 | 2.700 | 0.006 | 9.665 | 1.369 | 12 | 269 |
| 4619/1.5/1320 | 1,320 | 3.600 | 0.004 | 7.249 | 1.027 | 9 | 359 |
| 4619/1/1980 | 1,980 | 5.400 | 0.002 | 4.833 | 0.684 | 6 | 538 |
| 4619/0.5/3959 | 3,959 | 10.800 | 0.001 | 2.417 | 0.342 | 3 | 1,076 |

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|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.7 | 13 ozs. | 1,750 | 3,500 |
| mm: 53 | 42 | 368g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|--------------------|----|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4625/95/16 | 16 | 0.057 | 14.260 | 598.025 | 84.688 | 750 | 6 |
| 4625/100/16 | 16 | 0.054 | 15.798 | 598.025 | 84.688 | 750 | 5 |
| 4625/90/17 | 17 | 0.060 | 12.801 | 562.847 | 79.706 | 706 | 6 |
| 4625/85/18 | 18 | 0.064 | 11.420 | 531.578 | 75.278 | 667 | 6 |
| 4625/80/20 | 20 | 0.068 | 10.119 | 478.420 | 67.750 | 600 | 7 |
| 4625/75/21 | 21 | 0.072 | 8.896 | 455.638 | 64.524 | 571 | 7 |

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|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.7 | 13 ozs. | 1,750 | 3,500 |
| mm: 53 | 42 | 368g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|---------------------|-----|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4625/70/22 | 22 | 0.077 | 7.752 | 434.927 | 61.591 | 545 | 8 |
| 4625/65/24 | 24 | 0.083 | 6.686 | 398.683 | 56.458 | 500 | 8 |
| 4625/60/26 | 26 | 0.090 | 5.700 | 368.015 | 52.115 | 462 | 9 |
| 4625/55/28 | 28 | 0.098 | 4.792 | 341.729 | 48.393 | 429 | 10 |
| 4625/50/31 | 31 | 0.108 | 3.963 | 308.658 | 43.710 | 387 | 11 |
| 4625/45/35 | 35 | 0.120 | 3.212 | 273.383 | 38.714 | 343 | 12 |
| 4625/40/39 | 39 | 0.135 | 2.540 | 245.344 | 34.744 | 308 | 13 |
| 4625/38/41 | 41 | 0.142 | 2.294 | 233.376 | 33.049 | 293 | 14 |
| 4625/36/43 | 43 | 0.150 | 2.060 | 222.521 | 31.512 | 279 | 15 |
| 4625/34/46 | 46 | 0.159 | 1.838 | 208.009 | 29.457 | 261 | 16 |
| 4625/32/49 | 49 | 0.169 | 1.629 | 195.274 | 27.653 | 245 | 17 |
| 4625/30/52 | 52 | 0.180 | 1.433 | 184.008 | 26.058 | 231 | 18 |
| 4625/28/56 | 56 | 0.193 | 1.249 | 170.864 | 24.196 | 214 | 19 |
| 4625/26/60 | 60 | 0.208 | 1.078 | 159.473 | 22.583 | 200 | 21 |
| 4625/24/65 | 65 | 0.225 | 0.920 | 147.206 | 20.846 | 185 | 22 |
| 4625/22/71 | 71 | 0.245 | 0.774 | 134.766 | 19.085 | 169 | 24 |
| 4625/20/78 | 78 | 0.270 | 0.640 | 122.672 | 17.372 | 154 | 27 |
| 4625/19/82 | 82 | 0.284 | 0.578 | 116.688 | 16.524 | 146 | 28 |
| 4625/18/87 | 87 | 0.300 | 0.520 | 109.982 | 15.575 | 138 | 30 |
| 4625/17/92 | 92 | 0.318 | 0.464 | 104.004 | 14.728 | 130 | 32 |
| 4625/16/98 | 98 | 0.338 | 0.412 | 97.637 | 13.827 | 122 | 34 |
| 4625/15/104 | 104 | 0.360 | 0.362 | 92.004 | 13.029 | 115 | 36 |
| 4625/14/112 | 112 | 0.386 | 0.316 | 85.432 | 12.098 | 107 | 38 |
| 4625/13/120 | 120 | 0.415 | 0.273 | 79.737 | 11.292 | 100 | 41 |
| 4625/12/130 | 130 | 0.450 | 0.233 | 73.603 | 10.423 | 92 | 45 |
| 4625/11/142 | 142 | 0.491 | 0.196 | 67.383 | 9.542 | 85 | 49 |
| 4625/10/156 | 156 | 0.540 | 0.163 | 61.336 | 8.686 | 77 | 54 |
| 4625/9.5/165 | 165 | 0.568 | 0.147 | 57.990 | 8.212 | 73 | 57 |
| 4625/9/174 | 174 | 0.600 | 0.132 | 54.991 | 7.787 | 69 | 60 |
| 4625/8.5/184 | 184 | 0.635 | 0.118 | 52.002 | 7.364 | 65 | 63 |
| 4625/8/195 | 195 | 0.675 | 0.105 | 49.069 | 6.949 | 62 | 67 |

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|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 1.7 | 13 ozs. | 1,750 | 3,500 |
| mm: 53 | 42 | 368g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|---------------|-------|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4625/7.5/208 | 208 | 0.720 | 0.093 | 46.002 | 6.514 | 58 | 72 |
| 4625/7/223 | 223 | 0.771 | 0.081 | 42.908 | 6.076 | 54 | 77 |
| 4625/6.5/240 | 240 | 0.831 | 0.070 | 39.868 | 5.646 | 50 | 83 |
| 4625/6/260 | 260 | 0.900 | 0.060 | 36.802 | 5.212 | 46 | 90 |
| 4625/5.5/284 | 284 | 0.982 | 0.051 | 33.692 | 4.771 | 42 | 98 |
| 4625/5/313 | 313 | 1.080 | 0.042 | 30.570 | 4.329 | 38 | 108 |
| 4625/4.5/347 | 347 | 1.200 | 0.034 | 27.575 | 3.905 | 35 | 120 |
| 4625/4/391 | 391 | 1.350 | 0.027 | 24.472 | 3.465 | 31 | 134 |
| 4625/3.5/447 | 447 | 1.543 | 0.021 | 21.406 | 3.031 | 27 | 154 |
| 4625/3/521 | 521 | 1.800 | 0.016 | 18.365 | 2.601 | 23 | 179 |
| 4625/2.5/625 | 625 | 2.160 | 0.011 | 15.309 | 2.168 | 19 | 215 |
| 4625/2/781 | 781 | 2.700 | 0.007 | 12.251 | 1.735 | 15 | 269 |
| 4625/1.5/1042 | 1,042 | 3.600 | 0.004 | 9.183 | 1.300 | 12 | 359 |
| 4625/1/1563 | 1,563 | 5.400 | 0.002 | 6.122 | 0.867 | 8 | 538 |
| 4625/0.5/3126 | 3,126 | 10.800 | 0.001 | 3.061 | 0.433 | 4 | 1,076 |

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|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 2.0 | 15 ozs. | 2,250 | 4,500 |
| mm: 53 | 50 | 424g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|-------------|----|---------|----------|--------------------------|---------|---------------------------|-----------------|
| 4632/100/12 | 12 | 0.054 | 19.736 | 797.367 | 112.917 | 1,000 | 5 |
| 4632/90/13 | 13 | 0.060 | 15.991 | 736.031 | 104.231 | 923 | 6 |
| 4632/95/13 | 13 | 0.057 | 17.814 | 736.031 | 104.231 | 923 | 6 |
| 4632/85/14 | 14 | 0.064 | 14.266 | 683.457 | 96.786 | 857 | 6 |
| 4632/80/15 | 15 | 0.068 | 12.639 | 637.894 | 90.333 | 800 | 7 |
| 4632/75/16 | 16 | 0.072 | 11.111 | 598.025 | 84.688 | 750 | 7 |
| 4632/70/17 | 17 | 0.077 | 9.682 | 562.847 | 79.706 | 706 | 8 |
| 4632/65/18 | 18 | 0.083 | 8.350 | 531.578 | 75.278 | 667 | 8 |
| 4632/60/20 | 20 | 0.090 | 7.118 | 478.420 | 67.750 | 600 | 9 |

4632

| | | | | |
|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 2.0 | 15 ozs. | 2,250 | 4,500 |
| mm: 53 | 50 | 424g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | Constant inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|---------------------|-----|---------|----------|--------------------------|--------------------|---------------------------|-----------------|
| 4632/55/22 | 22 | 0.098 | 5.983 | 434.927 | 61.591 | 545 | 10 |
| 4632/50/24 | 24 | 0.108 | 4.947 | 398.683 | 56.458 | 500 | 11 |
| 4632/45/26 | 26 | 0.120 | 4.010 | 368.015 | 52.115 | 462 | 12 |
| 4632/40/30 | 30 | 0.135 | 3.170 | 318.947 | 45.167 | 400 | 13 |
| 4632/38/31 | 31 | 0.142 | 2.862 | 308.658 | 43.710 | 387 | 14 |
| 4632/36/33 | 33 | 0.150 | 2.570 | 289.952 | 41.061 | 364 | 15 |
| 4632/34/35 | 35 | 0.159 | 2.293 | 273.383 | 38.714 | 343 | 16 |
| 4632/32/37 | 37 | 0.169 | 2.032 | 258.605 | 36.622 | 324 | 17 |
| 4632/30/40 | 40 | 0.180 | 1.787 | 239.210 | 33.875 | 300 | 18 |
| 4632/28/43 | 43 | 0.193 | 1.558 | 222.521 | 31.512 | 279 | 19 |
| 4632/26/46 | 46 | 0.208 | 1.344 | 208.009 | 29.457 | 261 | 21 |
| 4632/24/50 | 50 | 0.225 | 1.146 | 191.368 | 27.100 | 240 | 22 |
| 4632/22/54 | 54 | 0.245 | 0.964 | 177.193 | 25.093 | 222 | 24 |
| 4632/20/60 | 60 | 0.270 | 0.798 | 159.473 | 22.583 | 200 | 27 |
| 4632/19/63 | 63 | 0.284 | 0.721 | 151.879 | 21.508 | 190 | 28 |
| 4632/18/66 | 66 | 0.300 | 0.647 | 144.976 | 20.530 | 182 | 30 |
| 4632/17/70 | 70 | 0.318 | 0.578 | 136.691 | 19.357 | 171 | 32 |
| 4632/16/74 | 74 | 0.338 | 0.512 | 129.303 | 18.311 | 162 | 34 |
| 4632/15/79 | 79 | 0.360 | 0.451 | 121.119 | 17.152 | 152 | 36 |
| 4632/14/85 | 85 | 0.386 | 0.393 | 112.569 | 15.941 | 141 | 38 |
| 4632/13/92 | 92 | 0.415 | 0.340 | 104.004 | 14.728 | 130 | 41 |
| 4632/12/99 | 99 | 0.450 | 0.290 | 96.651 | 13.687 | 121 | 45 |
| 4632/11/108 | 108 | 0.491 | 0.244 | 88.596 | 12.546 | 111 | 49 |
| 4632/10/119 | 119 | 0.540 | 0.202 | 80.407 | 11.387 | 101 | 54 |
| 4632/9.5/125 | 125 | 0.568 | 0.183 | 76.547 | 10.840 | 96 | 57 |
| 4632/9/132 | 132 | 0.600 | 0.164 | 72.488 | 10.265 | 91 | 60 |
| 4632/8.5/140 | 140 | 0.635 | 0.147 | 68.346 | 9.679 | 86 | 63 |
| 4632/8/149 | 149 | 0.675 | 0.130 | 64.217 | 9.094 | 81 | 67 |
| 4632/7.5/159 | 159 | 0.720 | 0.115 | 60.179 | 8.522 | 75 | 72 |
| 4632/7/170 | 170 | 0.771 | 0.100 | 56.285 | 7.971 | 71 | 77 |
| 4632/6.5/183 | 183 | 0.831 | 0.087 | 52.286 | 7.404 | 66 | 83 |

4632

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|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 2.0 | 15 ozs. | 2,250 | 4,500 |
| mm: 53 | 50 | 424g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|----------------------|-------|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4632/6/199 | 199 | 0.900 | 0.074 | 48.082 | 6.809 | 60 | 90 |
| 4632/5.5/217 | 217 | 0.982 | 0.062 | 44.094 | 6.244 | 55 | 98 |
| 4632/5/238 | 238 | 1.080 | 0.052 | 40.203 | 5.693 | 50 | 108 |
| 4632/4.5/265 | 265 | 1.200 | 0.042 | 36.107 | 5.113 | 45 | 120 |
| 4632/4/298 | 298 | 1.350 | 0.034 | 32.109 | 4.547 | 40 | 134 |
| 4632/3.5/340 | 340 | 1.543 | 0.026 | 28.142 | 3.985 | 35 | 154 |
| 4632/3/397 | 397 | 1.800 | 0.019 | 24.102 | 3.413 | 30 | 179 |
| 4632/2.5/476 | 476 | 2.160 | 0.014 | 20.102 | 2.847 | 25 | 215 |
| 4632/2/596 | 596 | 2.700 | 0.009 | 16.054 | 2.273 | 20 | 269 |
| 4632/1.5/794 | 794 | 3.600 | 0.005 | 12.051 | 1.707 | 15 | 359 |
| 4632/1/1191 | 1,191 | 5.400 | 0.002 | 8.034 | 1.138 | 10 | 538 |
| 4632/0.5/2382 | 2,382 | 10.800 | 0.001 | 4.017 | 0.569 | 5 | 1,076 |

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|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 2.2 | 16 ozs. | 2,650 | 5,300 |
| mm: 53 | 55 | 453g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|--------------------|----|---------|----------|--------------------------|---------|---------------------------|-----------------|
| 4638/100/10 | 10 | 0.054 | 23.112 | 956.840 | 135.500 | 1,200 | 5 |
| 4638/90/11 | 11 | 0.060 | 18.725 | 869.855 | 123.182 | 1,091 | 6 |
| 4638/95/11 | 11 | 0.057 | 20.861 | 869.855 | 123.182 | 1,091 | 6 |
| 4638/85/12 | 12 | 0.064 | 16.705 | 797.367 | 112.917 | 1,000 | 6 |
| 4638/80/13 | 13 | 0.068 | 14.800 | 736.031 | 104.231 | 923 | 7 |
| 4638/70/14 | 14 | 0.077 | 11.336 | 683.457 | 96.786 | 857 | 8 |
| 4638/75/14 | 14 | 0.072 | 13.010 | 683.457 | 96.786 | 857 | 7 |
| 4638/65/16 | 16 | 0.083 | 9.777 | 598.025 | 84.688 | 750 | 8 |
| 4638/60/17 | 17 | 0.090 | 8.333 | 562.847 | 79.706 | 706 | 9 |
| 4638/55/18 | 18 | 0.098 | 7.004 | 531.578 | 75.278 | 667 | 10 |
| 4638/50/20 | 20 | 0.108 | 5.791 | 478.420 | 67.750 | 600 | 11 |
| 4638/45/23 | 23 | 0.120 | 4.693 | 416.018 | 58.913 | 522 | 12 |

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|-----------|--------|---------|-----------------|----------------|
| Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
| inch: 2.1 | 2.2 | 16 ozs. | 2,650 | 5,300 |
| mm: 53 | 55 | 453g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|---------------------|-----|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4638/40/25 | 25 | 0.135 | 3.711 | 382.736 | 54.200 | 480 | 13 |
| 4638/38/27 | 27 | 0.142 | 3.350 | 354.385 | 50.185 | 444 | 14 |
| 4638/36/28 | 28 | 0.150 | 3.007 | 341.729 | 48.393 | 429 | 15 |
| 4638/34/30 | 30 | 0.159 | 2.684 | 318.947 | 45.167 | 400 | 16 |
| 4638/32/32 | 32 | 0.169 | 2.378 | 299.013 | 42.344 | 375 | 17 |
| 4638/30/34 | 34 | 0.180 | 2.091 | 281.424 | 39.853 | 353 | 18 |
| 4638/28/36 | 36 | 0.193 | 1.823 | 265.789 | 37.639 | 333 | 19 |
| 4638/26/39 | 39 | 0.208 | 1.573 | 245.344 | 34.744 | 308 | 21 |
| 4638/24/42 | 42 | 0.225 | 1.341 | 227.819 | 32.262 | 286 | 22 |
| 4638/22/46 | 46 | 0.245 | 1.128 | 208.009 | 29.457 | 261 | 24 |
| 4638/20/51 | 51 | 0.270 | 0.933 | 187.616 | 26.569 | 235 | 27 |
| 4638/19/53 | 53 | 0.284 | 0.842 | 180.536 | 25.566 | 226 | 28 |
| 4638/18/56 | 56 | 0.300 | 0.757 | 170.864 | 24.196 | 214 | 30 |
| 4638/17/60 | 60 | 0.318 | 0.675 | 159.473 | 22.583 | 200 | 32 |
| 4638/16/63 | 63 | 0.338 | 0.599 | 151.879 | 21.508 | 190 | 34 |
| 4638/15/68 | 68 | 0.360 | 0.527 | 140.712 | 19.926 | 176 | 36 |
| 4638/14/72 | 72 | 0.386 | 0.459 | 132.894 | 18.819 | 167 | 38 |
| 4638/13/78 | 78 | 0.415 | 0.397 | 122.672 | 17.372 | 154 | 41 |
| 4638/12/84 | 84 | 0.450 | 0.338 | 113.910 | 16.131 | 143 | 45 |
| 4638/11/92 | 92 | 0.491 | 0.285 | 104.004 | 14.728 | 130 | 49 |
| 4638/10/101 | 101 | 0.540 | 0.236 | 94.737 | 13.416 | 119 | 54 |
| 4638/9.5/107 | 107 | 0.568 | 0.213 | 89.424 | 12.664 | 112 | 57 |
| 4638/9/113 | 113 | 0.600 | 0.192 | 84.676 | 11.991 | 106 | 60 |
| 4638/8.5/119 | 119 | 0.635 | 0.171 | 80.407 | 11.387 | 101 | 63 |
| 4638/8/127 | 127 | 0.675 | 0.152 | 75.342 | 10.669 | 94 | 67 |
| 4638/7.5/135 | 135 | 0.720 | 0.134 | 70.877 | 10.037 | 89 | 72 |
| 4638/7/145 | 145 | 0.771 | 0.117 | 65.989 | 9.345 | 83 | 77 |
| 4638/6.5/156 | 156 | 0.831 | 0.101 | 61.336 | 8.686 | 77 | 83 |
| 4638/6/169 | 169 | 0.900 | 0.086 | 56.618 | 8.018 | 71 | 90 |
| 4638/5.5/184 | 184 | 0.982 | 0.073 | 52.002 | 7.364 | 65 | 98 |
| 4638/5/203 | 203 | 1.080 | 0.060 | 47.135 | 6.675 | 59 | 108 |

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| | Diam. | Length | Weight | Max Cont. Watts | Max Peak Watts |
|-------|-------|--------|---------|-----------------|----------------|
| inch: | 2.1 | 2.2 | 16 ozs. | 2,650 | 5,300 |
| mm: | 53 | 55 | 453g | | |

| Motor | KV | Rm Ohms | Io @ 10v | Torque Constant mNm/A | inOz/A | Max Volts (max rpm/Kv) | Saturation Amps |
|----------------------|-------|---------|----------|--------------------------|--------|---------------------------|-----------------|
| 4638/4.5/225 | 225 | 1.200 | 0.049 | 42.526 | 6.022 | 53 | 120 |
| 4638/4/253 | 253 | 1.350 | 0.039 | 37.820 | 5.356 | 47 | 134 |
| 4638/3.5/289 | 289 | 1.543 | 0.030 | 33.109 | 4.689 | 42 | 154 |
| 4638/3/338 | 338 | 1.800 | 0.022 | 28.309 | 4.009 | 36 | 179 |
| 4638/2.5/405 | 405 | 2.160 | 0.016 | 23.626 | 3.346 | 30 | 215 |
| 4638/2/507 | 507 | 2.700 | 0.010 | 18.873 | 2.673 | 24 | 269 |
| 4638/1.5/675 | 675 | 3.600 | 0.006 | 14.175 | 2.007 | 18 | 359 |
| 4638/1/1013 | 1,013 | 5.400 | 0.003 | 9.446 | 1.338 | 12 | 538 |
| 4638/0.5/2026 | 2,026 | 10.800 | 0.001 | 4.723 | 0.669 | 6 | 1,076 |

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<http://www.neumotors.com>

DOMESTIC CONTENT / COUNTRY OF ORIGIN

Motors may be assembled with varying degrees of domestic (USA) content. Please contact to discuss content requirements, solutions, and resulting pricing variances, if any. Baseline motors are assembled and or tested in the US or Mexico from components sourced globally, including China.

QUALITY CONTROL

Our factory is ISO 9001 certified. Quality documentation available on a custom order basis.

POWER RATINGS (Watts):

Continuous rating is the power the motor can deliver while maintaining the external housing temperatures below 100C.

MAX power rating is the power the motor can deliver beginning with motor at a temp of 20C until it reaches it's limit temperature of 100C. The exact maximum power output of a motor is dependent on a number of variables including air flow, ambient air temperature, contact cooling, etc. 100C rating is measured on the outside of the case, which allows for higher internal temperatures and a small measure of overhead.

MAX VOLTAGE

Limited by kv (RPMs per volt) times the applied voltage. Max voltage must be kept below the voltage which will spin the motor over max rpm for the motor series.

MAX AMPERAGE

See power ratings above.

MTBF RATINGS:

When used within the constraints described above, BLDC motors' primary "wear" item(s) are the bearings supporting the shaft. Bearing life is inversely affected by speed, temperature, radial and axial loads. While an MTBF figure can be generated, it would be rendered invalid by excursions beyond prescribed temperatures or load limits – such as prop strikes or side loads. MTBF must be determined on a case by case basis, and even then it would be subject to numerous exceptions.

COMPONENT SPECIFICATIONS

Winding temperature: 180C
Magnet grade: 180C UH grade
Bearings: Japanese SPB bearings

Specifications subject to change without notice.

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